

	<b>Senior Research &amp; Development Engineer</b>	Ref: HR-F-21
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<b>Job Title:</b>	Senior Research & Development Engineer
<b>Department:</b>	Engineering
<b>Reporting to:</b>	Commercial Technical Director
<b>Period of Employment:</b>	Permanent
<b>Date of Update:</b>	2024
<b>Salary</b>	£45-60k

### **Main Purpose of Role**

The Senior Research & Development Engineer will be responsible for the day to day activities necessary to deliver customer projects, on time, on budget and to JRM AE high quality standards. The position will also be responsible for establishing & running JRM AE rig testing capabilities and facility.

### **Key Responsibilities & Accountabilities**

As Senior Research & Development Engineer you will be responsible for:

- The overall ownership and development of all rig testing facilities and equipment within JRM. This will cover full-vehicle, engine, gearbox, suspension, and component testing equipment as well as any other related equipment such as driver-in-loop (HIL) and hardware-in-loop (HIL).
- Working with the Commercial Technical Director to develop & implement the long-term strategic direction of the testing Facility, and product portfolio.
- The design, specification, build and testing of all new rig facilities within JRM AE.
- The establishment of a commercial testing capability.
- The management of the day to day budget for any new rig facility. This will require working with the Finance team to monitor all costs and benefits against budgets and forecasts.
- Supporting the resolution of issues and initiating corrective actions on a timely basis.
- Compliance with all departmental H&S requirements.
- Compliance, where appropriate with management, & environmental, systems, such as ISO 9001.

### **Key Skills Requirements**

- Excellent Engineering & problem-solving capabilities with a good attention to detail and a practical approach.
- Significant experience of electrical rig design & development.
- Significant PLC software development experience, including PID control.
- Vehicle dynamics
- Vehicle system test protocols, and analysis methods
- Powertrain engine mapping
- Resource management
- Project planning & budget forecasting.
- Excellent written and spoken English.
- Engineering degree graduate, or equivalent.

### **Special aptitudes**

- Significant experience of the following software packages essential:



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- Matlab
- Mitsubishi PLC/Motion, or similar
- Catia, Solidworks or similar
- Data logging tools such as LabView, Pi Toolbox, Motec i2 pro
- Familiarity with the following software packages:
- Adams, or similar MBS tools
- A creative thinker not afraid to suggest new ways of doing things
- Flexible attitude is essential
- Willing to work additional hours to ensure tasks are completed on time
- Team player with ability to also work on own

### Disposition

- Flexible and cooperative attitude
- An assertive but calm demeanour
- Self-motivated
- Ability to listen to customer needs and respond accordingly

### Requirements

- Good timekeeping and attendance record
- Willing to be flexible with hours to ensure tasks are completed on time
- Neat and tidy appearance
- Completer/Finisher

Any JRM AE employee may be asked on occasion to perform additional or unrelated duties, after appropriate training has been given, if required.

### Summary Terms & Conditions

- **Pension** - Upon joining the Company, you will be automatically enrolled, with contributions starting after 3 months.
- **Leave entitlement** - 25 days per year plus statutory holidays (compulsory shutdown of three days at Christmas).
- **Notice period** - There will be an initial six-month probationary period, during which notice will be one week on either side. On successful completion of the probationary period notice will be one month.
- **Working hours** - 08:30 – 17:00, Monday to Friday.

**This job description is neither exhaustive nor exclusive and may be reviewed in the future depending upon operational requirements and staffing levels.**